CHAPTER-IV

ANALYSIS OF STATEMENTS

- a) Liquidity Ratios
- b) Solvency Ratios
- c) Leverage Ratios
- d) Pm fitability Ratios
- e) Activity Ratios

4.1 INTRODUCTION :

In the preceeding chapter, the theoretical elaboration of various ratios that help in the financial analysis of any organisation has been given. We now turn to the actual calculation of ratios on the basis of the data of the 'Deccan Co-operative Spinning Mills Ltd., Ichalkaranji.'

Classification of Ratios : (

Ratios are classified according to their importance, traditional classification and functional classification.

Classification of Ratios according to nature of items or Traditional classification (i) Balance sheet Ratios - These ratios exhibits relationship between two items or group of items in the balance sheet.

- 1) Current Ratio
- 11) Acid Test Ratio
- 111) Debt Equity Ratio
 - iv) Ratio of long term debt to shareholders fund
 - v) Proprietory or Equity Ratio
 - vi) Solvency Ratio
- vii) Fixed Assets to Net worth.
- viii) Ratio of current assets to proprietors fund.
 - ix) Capital gearing ratio
 - x) Total investment to long-term liabilities.
 - xi) Ratio of current liabilities to proprietors fund.

Revenue Statement Ratio :

The ratios disclosing relationship between two items or group of items in manufacturing account, trading account and profit and loss account are revenue statement ratios.

- i) Inventory Turnover Ratio
- 11) Interest Coverage Ratio
- 111) G.P. Ratio
 - iv) N.P. Ratio
 - v) Operating Ratio
 - vi) Expenses Ratio
- vii) Operating profit Ratio.

Composite Patios :

The ratios indicates relationship of certain items in balance sheet with some figures in the revenue statement.

- 1) Debtors Turnover Ratio
- ii) Average Collection Period
- iii) Creditors Turnover
 - iv) Average payment period
 - v) Working capital Turnover
 - vi) Fixed Assets Turnover
- vii) Return on shareholders investment
- viii) Return on equity capital
 - ix) Earning per share
 - x) Return on capital employed.

Ratio Analysis :

Calculation of Patios - while calculating ratios classification of ratios is done according to the solvency, liquidity, profitability and leverage tests. Though various basis of classification are available objective of the analysis is considered for the convenience of completion of dissertation. Main object of analysing financial data of the concerned is to judge the liquidity, efficiency, solvency, profitability and leverage of the mill.

Liquidity Ratios

- 1) Current Ratio
- 11) Quick Ratio
- 111) Debtors Tirmover Patio
 - iv) Inventory Turnover Ratio.

Solvency Ratios :

- 1) Debt Equity Ratio
- ii) Ratio of long-term debt to shareholders fund
- iii) Proprietory or equity Ratio
 - iv) Solvency Ratio
 - v) Ratio of Fixed Assets to Net worth.
 - vi) Ratio of current assets to proprietors fund.
 - vii) Interest Coverage Ratio
- viii) Fixed Assets Turnover Ratio.

Leverage Ratios:

- i) Capital Gearing.
- ii) Total Investment to long-term liabilities
- 111) Debt Equity Ratio
 - iv) Ratio of current liabilities to proprietors fund

Profitability Ratios :

- a) General Profitability
 - i) Operating Ratio
 - ii) Expenses Ratio
 - iii) Operating Profit Ratio
 - iv) G.P. Ratio
 - v) N.P. Ratio

b) Overall Profitability -

- i) Return on shareholders investment or net worth
- ii) Return on equity capital
- iii) Earning per share
 - iv) Return on capital employed

Activity Ratios :

- 1) Inventory Turnover Ratio
- ii) Debtors Velocity
- 111) Debtors Average collection period
 - iv) Creditors velocity
 - v) Creditors Average payment period
 - vi) Working Capital Turnover.

4.2 LIQUIDITY RATIOS :

Current Ratio :

and current liabilities. Current assets consists of cash, bank account, excise current account, stores and spares parts, coal, cotton at godown, cotton-in-process, yarn work-in-process, yarn at packing section and bonded godown, yarn at selling centre, saleable cotton waste at godown, hard waste, debtors, deposits, purchases of cotton, stores purchases and expenses, building construction, purchases of machinery, employees, purchases of shares, earnest octroi money, excise duty, sales tax, prepaid insurance, prepaid expenses, advance payment of income tax.

Current liabilities consists of refundable deposits from members, loan from the Maharashtra State Co-operative Bank Ltd., Bembey (hypothecated, mortgage and clean cash credit) Deposits from Contractors, Deposits from years, Deposits from others, sundry creditors, expenses, Education fund subscription, outstanding amount payable to others, sales tax, interest, provision, for income tax, Dividend, Gratuity provision.

Current Ratio for five years of the mill.

Current Ratio = Gurrent Assets
Current Liabilities

Current Ratio for 1980-81

- = 6.69.96.908.34 4,32,50,221.68
- **= 1.55:1.**

Current Patio for 1981-82

- = 8.38.74.225.68 5,54,57,868.98
- 1.52:1

Current Ratio for 1982-83

- = 8.65.61.144.13 6,12,29,650.36
- = 1.42 : 1

Current Ratio for 1983-84

- 8.41.80.732.16 6,25,43,390.59
- -1.31 : 1

Current Ratio for 1984-85

- = 8.21.81.630.91 6,47,48,330.05
- 1.25:1

For Total Current Annets and Total Current assets and question limbilities.

Acid Test Ratio :

Acid test ratio is the relationship between liquid assets and liquid liabilities. Liquid assets consists of current assets excepting stock and all current liabilities except bank overdraft.

Liquid assets consists of cash, bank, excise account current, stores and spares, parts, coal, cotton at godown, cotton in process, yarn in process, debtors, deposits, purchases of cotton, stores purchases and expenses, building construction, purchases of machinery, employees, purchases of shares, earnest octroi money, excise duty, sales tax, prepaid insurance, prepaid expenses, advance payment of income tax.

Liquid liabilities consists of refundable deposits from members, loan, taken from the Maharashtra State Co-operative Bank Ltd., Bombay (Hypothecation, mortgage, clean cash credit) Deposits from contractors, Deposits from yarm, Deposits from others, sundry creditors, Expenses Education Fund subscription, outstanding amount payable to others, sales tax, interest, provision for income tax, Dividend gratuity provision.

Liquid Patio

Liquid Assets
Liquid Liabilities

Liquid Ratio for five years of the Mill.

Hence Liquid Assets = Current Assets - Stock.

Stock consists of the items of cotton at godown, yarn-in-work in progress, cotton in work in progress, cotton in work in progress, yarn at packing section and bonded godown, yarn at selling centre, saleable cotton waste at godown, hardwaste.

Current Assets (excluding stock) Current Liability

 $1980-81 = \frac{2.78, 32.898.06}{4, 32, 50, 221.68}$

= 0.64:1

1981-82 <u>3.43.01.225.82</u> 5,54,57,868.98

= 0.62:1

1982-83 = 3.47.31.300.40 6,12,29,650.36

6 0.57:1

1983-84 = 1.56.41.198.05 6,25,43,390.59

= 0.25:1

 $1984-85 = \frac{2.69.37.214.10}{6,47,48,330.05}$

= 0.42:1

for liquid assets see chart of liquid same and for liquid liabilities one chart of liquid liabilities.



4.3 SOLVENCY RATIOS :

Solvency is the ability of the mill to pay its debt as and when it is matured. These ratios will indicate the analysis at long-term financial position or solvency.

1) Bebt Souity Ratio :

Debt-equity ratio relates all recorded creditors claims an assets to the owners recorded claims in order to measure the firms obligations to creditors in relation to funds provided by the owners.

Debt Equity Ratio - Ontsiders funds Shareholders fund

Outsiders funds consists of secured loan taken from Industrial Finance Corporation of India, The Industrial Credit and Investment Corporation of India Ltd., Life Insurance Corporation of India, The Maharashtra State Co-operative Bank Ltd., Bombay.

Unsecured loan from the State Industrial Investment Corporation of Maharashtra Ltd. and Fixed Deposits.

Current Liabilities and Provisions includes Refundable deposits from members, The Maharashtra State Co-operative Bank Ltd. Nombay - (a) Hypothecated cotton and yarn stock, (b) Mortgage, (c) clearn cash credit, (d) freeshipment cash credit.

Deposits includes from contractors and from yark takers and others.

Current liabilities also includes sundry creditors, expenses, education fund subscription, others, sales tax, interest, provision for income tax, Dividend, Gratuity provision.

Shareholders Fund :

Shareholders fund consists of share capital and Reserves and surplus.

Reserves and surplus includes Reserve Fund, Depreciation Fund, Development Rebate Reserve, Investment allowance, Reserve Fund, Capital Redemption Reserve Fund, Dividend for bad and doubtful debt fund, building fund, profit and loss account, Credit balance and deduct profit and loss account Dr. balance.

Outsiders Fund for 1980-81

Non Refundable deposits from members	95,14,319.49
Refundable deposits from members	91, 57, 130.00
Secured Loan	1,30,65,000.00
Unsecured Loan	33,77,268.00
Loan for working capital	1,59,56,619.55
Deposits	2,06,401.48
Current Liability and Provisions	1,09,36,982.23
Interest	31,59,078.42
Di vidend	8,360.00
Income Tax Provision	38, 24, 650.00

Total Outsider's Fund 6,92,05,809.17

Outsider's Fund for 1981-82

Non Refundable deposits from members	95,14,319.48
Refundable deposits from members	1,12,64,750.00
Secured Loan	2,59,80,000,00
Unsecured Loan	40, 51, 268.00
Loan for working capital	2,85,62,578.22
Deposits	10,09,260.98
Current Liabilities and Provisions	75, 23, 936, 26
Interest	40,06,493,46
Provision for Income Tax	38, 24, 650,00
Dividend	11,200.00
Total Outsider's Fun	d 9, 57, 48, 456.41

Outsider's hand for 1982-83

Non Refundable deposits from members	95, 14, 319.49
Refundable deposits from members	1,12,66,440.00
Secured Loan	3,06,05,000.00
Unsecured Loan	43,98,268.00
Loan for working capital	3,01,31,720.73
Deposits	15, 15, 304.63
Current Liebility and Provisions	1, 13, 38, 389.04
Interest	41,87,305.96
Current Liabilities and provision	
Provision for Income tax	38, 24, 650.00
Dividend	3,840,00

Total Outsider's Fund 10,67,88,237.85

Outsider's Fund for 1983-84

Non Refundable deposits from members	95,14,319,49
Refundable deposits from members	1,12,66,440.00
Secured Loan	3,73,70,000.00
Unsecured Loan	53,81,641.00
Loan for working capital	3,61,18,075,69
Deposits	26,78,731.06
Current Liability and Provisions	1,08,61,742.28
Interest	40,08,800,56
Progision for income tax	•
Dividend	1,920,00
	districts and estimately to the sale pass and the sale sale sale sale sale sale sale sal
Total Outsiders Fund:	11,72,01,670.08

Outsider's Bund for 1984-85

Non refundable deposits from members	95,14,319.49
Refundable deposits from members	1,12,66,440.00
Secured Loan	2, 34, 30, 000.00
Unsecured Loan	89, 55, 460.00
Loan for working capital	3, 36, 81, 849.74
Deposits	29, 23, 249, 84
Current Liability and provisions	1,54,76,853.35
Interest	40, 23, 016.91
Dividend	1,920.00

Total Outsiders Fund: 10,62,73,109.53

Debt Equity Ratio for 1980-81

Outsiders Fund Shareholders Fund

- = 6.92.05.809.17 8,59,63,652.68
- 0.81:1

Debt Equity Ratio for 1981-82

Outsiders Fund Shareholders Fund

- = 9.57.48.456.41 9,38,43,921.36
- = 1.02:1

Debt Equity Ratio for 1982-83

Outsiders Fund Shareholders Fund

- 10.67.88.237.85 10.49.26.211.49
- = 1.02:1

Debt Equity Ratio 1983-84

Outsiders Fund Shareholders Fund

- = 11.72.01.670.08 11,84,62,498.29
- 0.98:1

Pebt Equity Ratio for 1984-85

Outsiders Fund Shareholders Fund

- = 10.62.73.103.53 12,54,19,558.16
- = 0.84:1

Per shareholders fund see shart of Shareholders'

Fred.

Ratio of Long-term debt to Shareholders Fund:

This ratio is calculated by following formula:

Shareholders Funds

Long-term debt of the mill includes secured loan and unsecured loan secured loan taken from Industrial Minance Corporation of India, Industrial Development Bank of India, The Industrial Credit and Investment Corporation of India Ltd., Life Insurance Corporation of India, The Maharashtra State Co-operative Bank Ltd., Bombay, unsecured loan from the State Industrial and Investment Corporation of Maharashtra Limited.

Shareholders fund consists of share capital and Reserve and Surplus. Reserves and surplus is of the following items Reserve Fund, Depreciation fund, Development rebate reserve, investment allowance reserve fund, capital redumption reserve fund, Dividend Equalisation fund, common good fund, Reserve for bad and doubtful fund, building fund and profit and loss account debit and credit balance.

Ratio of long term debt to shareholders funds for five years:

For shareholders fund see chart of Shareholders fund.

Long-term debt for 1980-81

1)	Industrial Finance Corporation of India	34, 50,000
2)	Industrial Development Bank of India	54, 50, 000
3)	Industrial Credit and Investment Comporation	33,65,000
4)	Life Insurance Corporation of India	8,00,000
5)	The Industrial and Investment Corporation of Maharashtra Ltd.	33,77,268
ľ	Total long-term debt :	1,64,42,268
U	Long-term debt for 1981-82	
1)	Non-refundable deposits from members secured loan from Industrial Finance Corporation of India for the fourth expansion programme	21,50,000.00
2)	The Industrial Credit and Invest- ment Corporation of India Ltd. :	
	 Fourth Expansion programme Modernisation Scheme 	80,000.00 23,25,000.00
3)	Life Insurance Corporation of India for fourth expansion scheme	4,00,000.00
4)	The Maharashtra State Co-operative Bank Ltd., Bombay - Middle term loan for replacement and renoration scheme	1,66,75,000.00
5)	Unsecured loan from the State Industrial and Investment Corpora- tion of Maharashtra Ltd.	40, 51, 268.00
6)	Industrial Development Bank of India:	
	 Fourth Expansion plan Modernisation Scheme 	21,00,000.00 22,50,000.00
	Total long-term debt	3,00,31,268.00

Long-term Loan debt 1982-83

- 1) Non refundable deposits from members
- 2) Secured loan from :
 - a) Industrial Finance Corporation 10,00,000.00 of India fourth expansion plan
 - b) Industrial Development Bank of India:
 - i) Fourth expansion plan 12,80,000,00 ii) Modernisation scheme 19,50,000,00
 - c) Industrial Credit and Investment Corporation of India Ltd.,
 - i) Fourth expansion plan
 ii) Modernisation scheme 19,75,000.00
 - d) Life Ansurance Comporation of India Fourth expansion Plan
 - e) The Maharashtra State 2,44,00,000.00 Co-operative Bank Ltd., Bombay - Middle term loan for replacement and removation scheme
- 3) Unsecured loan from the State Industrial and Investment Corporation of Maharashtra Ltd.

43,98,268,00

Total long-term debt : 3,50,03,268.00

Long term-debt for 1983-84

- 1) Non refundable deposits from members
- 2) Secured loan taken from :
 - a) Industrial Finance Corporation of India fourth expansion plan
 - b) Industrial Development Bank of India - Fourth expansion plan

2,40,000.00

c) Modernisation scheme

16,50,000.00

c) The Industrial Credit and Investment Corporation of India Ltd., Modernisation Scheme

16, 50,000.40

- d) The State Co-oprative Bank Ltd., Bombay - Middle term loan -
 - For replacement and
 For generating sets

3, 22, 80, 000.00

e) Unsecured loan from the State Industrial and Investment Corporation of Maharashtra Ltd.

53, 81, 641,00

Total long-term debt

4, 27, 51, 641.00

Long term-debt for 1984-85

- 1) Non refundable deposits from members
- 2) Secured loan taken from :
 - a) The Industrial Development Bank of India:
 - i) Fourth emansion plan
 - 11) For modernisation scheme 13,50,000-00
 - b) The Industrial Credit and Investment Corporation of India Ltd. - Modernisation 13,50,000.00 scheme
 - c) The Maharashtra State Co-operative Bank Ltd., Bombay -Middle term loam
 - 1) For replacement and 1,95,30,000.00 renovation scheme
 - ii) Generating sets 12,00,000.00
 - d) The State Industrial and 59,55,460.00 Investment Corporation of Maharashtra Ltd.

Total long-term debt 2,93,85,460.00

Ratio of long term debt to shareholders fund

Long term debt Shareholders Fund

Proprietory Ratio Equity Ratio

Shareholders Aund Total Assets

Shareholders fund consists of share capital and reserves and surplus. Following items are taken in reserves and surplus Reserve Fund, Depreciation Fund, Development Rebate Reserve,

Investment Allowance Reserve Fund, Capital Redemption Reserve Fund, Dividend equalisation fund, common Good Fund, Reserve for land and doubtful debt fund, Building fund, profit and Loss A/c etc.

Total assets means fixed assets, Investments, current assets, fixed assets includes land, building and roads, plant and machinery, Dead stock and furniture, Rioler and Steam pipe line, fire hydrants, weights and measures, works instruments, vehicles, water installation, telephone and Telex installation, Trolly line, Jackwell and pipe line, Library books.

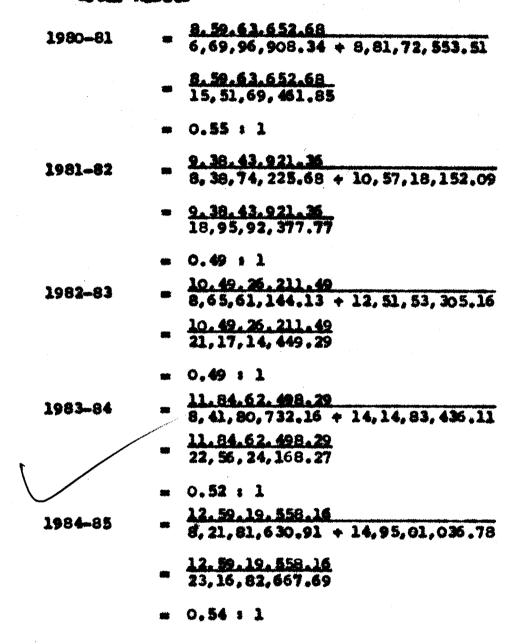
Investment includes Nation Savings Bonds, Comperative Society's shares, Industrial Finance Corporation of India.

Current assets includes cash, Bank Excise Account (current), stores and spares parts coal, cotton at godown, cotton in work in progress, yern work in progress, yern at packing section and bonded godown, yern at selling centre, salealote cotton waste at godown, Hard waste, Debtors, deposits, purchases of gotton, stores purchases and expanses. Building construction, purchases of machinery, employees, purchases of shares, Earnest octroi money, refundable excise duty, refundable sales tax, prepaid insurance, prepaid expenses, advance payment of income tax.

Total asset means assets and properties excluding P&L A/c and fictitious assets.

Proprietory Ratio :

Shareholder's Aund Dtal Assets



For shareholders fund see chart of shareholders fund and for total assets see chart of fixed assets, current assets and investments.

Solvency Ratio :

= Total Liabilities to outsiders Total Assets

Solvency Ratio for 1980-81

= 5.05, 35, 359,68 10, 43, 82, 502.65

= 0.48:1

Solvency Ratio for 1981-82

- 7.49.69.396.92 13,17,75,448.11

- 0.57:1

Solvency Ratio for 1982-83

= 8.60.07.478.36 14,29,94,343.88

- 0.60:1

Solvency Ratio for 1983-84

= 9.64.20.581.59 14,23,88,523.79

m 0.68:1

Solvency Ratio for 1984-85

8.54.91.350.04 23,45,21,585.88

= 0.64:1

Introper Patie :

Total Liabilities to Outsiders Total Assets

Total liabilities to outsiders includes secured loan, unsecured loan, current liabilities and provisions etc. Total liabilities to outsiders excludes deposits from members refundable and deposits from members non-refundable. Because at last they are owner claims.

Total Liabilities to outsiders 1980-81:

	Secured Loan	1,30,65,000,00
	Unsecured Loan	1, 28, 91, 587.49
	Current Liabilities and provi	isions 4, 32, 50, 221.68
		6,92,06,809.17
	Less Deposits	
	Refundable 91, 57, 130.	.00
1	Non-refundable 95,14,319.	1,86,71,449.49
	Total Liabilities to Out	5,05,35,359.68
Total	Liabilities to Outsiders 1981-8	32 :
	Secured Loan	2, 59, 80,000.00
	Unsecured Loan	1, 43, 10, 587, 49
	Current Liabilities and provi	5,54,57,868,92 9,57,48,456.41
	Less Deposits	
	Refundable 1,12,64,750	.00
,	Non-refundable 95,14,319	2,07,79,069.49
	Total Liabilities to	Outsiders 7,49,69,386.92

Total Liabilities to Outsiders 1982-83

		2) 0 7 1 0 0 7 1 29 1 49
Non-refundable	95, 14, 319.49	2,07,80,759.49
Refundable	1,12,66,440.00	
Less Deposits		
		10,67,88,237.85
Current Liabili	ties and provisions	6,12,29,650.36
Unsecured Loan	•	1, 49, 53, 587.00
Secured Loan		3,06,05,000.00

Total Mabilities to Outsiders 8,60,07,478.36

Total Liabilities to Outsiders 1983-84

Total Liabilities to Outsiders	9,64,20,581.59
Non-refundable 95.14.319.49	2,07,80,759.49
Refundable 1,12,66,440.00	
Less Deposits	
	11,72,01,341.08
Current Liabilities and provisions	6, 25, 43, 390.59
Unsecured Loan	1,72,87,950,49
Secured Loan	3,73,70,000.00
Secured Loan	3.73.70.000.0

Total Liabilities to Outsiders 1984-85

Total Mabilities to outsiders	8, 54, 91, 350.04
Non-refundable 95,14,319.49	2,07,80,759.49
Refundable 1,12,66,440.00	
Less Deposits	
	10,62,72,109.53
Current Liabilities and provisions	6, 47, 48, 330.04
Unsecured Loan	1,80,94,779.49
Secured Loan	2, 34, 30,000.00

Total assets means fixed assets after depreciation, investments, current assets loans and advances. It means all assets excluding fictitious assets and profit and loss account reserve balance.

Calculation of Total Assets 1980-81

Net Fixed Assets	3,60,80,144,31
Current Assets	6,69,96,908.34
Investments	13, 16, 450.00
	13,17,75,448,11

Calculation of Total Assets 1982-83

Net Pixed Assets	5, 49, 25, 749.7 5
Current Assets	8,65,61,144.13
Investments	15,07,450.00
	14, 29, 94, 343.88

Calculation of Total Assets 1983-84

Net Rixed Assets	5,66,45,091,63
Coment Assets	8, 41, 90, 732.16
Investments	15,62,700.00
	14, 23, 88, 523.79

Calculation of Total Assets 1984-85

Net Fixed Assets	5, 10, 76, 754.97
Current Assets	8, 21, 81, 630, 91
Investments	13,63,200.00
	13, 45, 21, 585, 88

FOF total envets see chart of fixed encets, current excets and investments assets.

Retio of Fixed Assets to Proprietors Fund :

Fixed Assets (after depriciation) Shareholders Fund

Fixed assets includes land, building and roads, plant and machinery, bioler and steem pipe line, dead stock and furniture, fire hydrunts, weights and measures, works instruments, vehicles, water installation, telephone and telex installation, trollyline, Jackwell and pipeline, library books etc.

Shareholders fund includes share capital and Reserves and surplus. Reserves and surplus consists of Reserve Fund, Depreciation fund, Development Rebate Reserve, Investment allowance Reserve Fund, Capital Redemption Reserve Fund, Dividend equalisation fund, common good fund, Reserve for bad and doubtful debts fund, Building fund, profit and loss account Dr. and Cr. balance.

Ratio of fixed assets to proprietors fund for 1980-81

Fixed Assets (after depriciation)
Shareholders Fund (after depreciation Fund)

- 3.60.80.144.31 8,59,63,652.68
- 0.419:1

Ratio of fixed assets to proprietor's Fund for 1981-82

- # Fixed Assets (after depreciation)
 Shareholders Fund
- = 4.65.84.772.43 9,38,43,921.36
- = 0.49:1

Ratio of Mixed Assets to Proprietors Fund for 1982-83

- Pided Assets (after depreciation)
 Shareholders Fund
- = 5.49.25.749.75 10,49,36,211.49
- **= 0.52:1**

Ratio of Fixed Assets to Proprietors Fund for 1983-84

- Fixed Assets (after deprication)
 Shareholder's Fund
- = 5.66,45,091.63 11,84,62,498.29
- 0.48:1

Ratio of Fixed Assets to Proprietor's Fund for 1984-85

- Fired Assets (after depreciation)
 Shareholders Fund
- = 5.10.76.754.97 12,54,19,558.16
- = 0.41:1

For Not Fixed Assets see there of not fixed assets and for shareholders fund see there of shareholders fund,

Ratio of Current Assets to Proprietors Fund :

Ourrent Assets Shareholders Fund

Current assets includes cash, bank, excise account current, stores and spares parts, coal, cotton at godown, cotton in work in progress, yern in work in progress, yern at packing section and bonded godown, yern at selling centre, saleable cotton waste at godown, hard waste, debtors, deposits, purchases of cotton, stores purchases, expenses, building construction, purchases of machinery, employees, purchases of shares, Earnest octroi money, refundable excise duty, refundable sales tax, prepaid insurance, advance payment of income tax.

Shareholders fund consists of shares capital and reserves and surplus, Reserve and surplus heading has the following items Reserve Fund, Depriciation fund, Development Rebate Reserve, Investment allowance Reserve Fund, Dividend equalisation fund, common good fund, Reserve for bad and doubtful debt fund Building fund, profit and loss account Dr. and Cr. balance.

Ratio of Current Assets to Proprietors Fund for 1980-81

- " Propertors Fund
 - 6.69.96.908.34 8,59.63.652.68
- 0.78:1

Ratio of Current Assets to Proprietors Fund for 1981-82

- = Current Assets
 Proprietors Fund
- = 8.38.74.225.68 9.38,43,921.36
- = 0.89:1

Ratio of Current Assets to Proprietors Fund for 1982-83

- = Propedetors Fund
- = 8.65.61.144.13 10,49,26,211.49
- 0.82:1

Ratio of Current Assets to Proprietors Fund for 1983-84

- Current Assets
 Proper tors Fund
- 8.41.80.732.16 11.84.62,498.29
- 0.71:1

Ratio of Current Assets to Proprietors Fund for 1984-85

- Current Assets
 Proprietors Fund
- 8.21.81.630.91 12,54,19,558.16
- m 0.66:1

for current assets see chart of current assets and for proprietors fund see chart of shareholders fund,

Interest Coverage or Debt Service Ratio :

" N.P. (before interest and tax) Rixed interest charges

N.P. before (interest and taxes)

. N.P.

5,07,190.37

+ Interest

55, 54, 851, 19

60,62,041.56

Interest Coverage Ratio for 1980-81

- * N.P. before interest and taxes Fixed interest charges
- = 60.62.041.56 55,54,851.19
- = 1.09

Interest Coverage Ratio for 1981-82

Net Loss

-(13,66,075,42)

+Interest

84,63,734.82

N.P. before interest 70,97,659.40

N.P. (before interest and taxes) Interest

- = 70.97.659.40 84,63,734.82
- = .84:1

Interest Coverage Ratio for 1982-83

Net Loss

-(11, 28, 240.62)

+ Interest

96, 21, 094.19

Net profit before interest 84,92,853.57

N.P. before interest Interest

- 84.92.853.57 96, 21, 094.19
- 0.88:1

Interest Coverage Ratio for 1983-84

Net Loss

-(62,62,347.27)

+Interest

1,19,216.79

Not profit before interest 56,97,869.52

Net profit before interest and tax Interest

56.97.869.52 1,19,60,216,79

= 0.4811

Interest Coverage Ratio for 1984-85

Net Loss

-(91,03,801.46)

+ Interest

1, 33, 43, 540.33

+ Income Tax

28, 316.00

Net profit before interest 42,39,738.87

N.P. before interest and taxes Interest

- = 42.39.738.87 1,33,43,540.33
- m 0.32:1

· Fixed Assets Turnover :

Sales Net Mand Assets

Fixed Assets includes land, building and roads, plant and machinery, bioler and steam pipe line, dead stock and furniture, fire hydrants, wdights and measures, works instruments, vehicles, water installation, telephone and telex installation, trolly line, jackwell and pipe line, library books.

Sales includes sales of yarn, cotton waste, hard waste.

Net fixed assets means assets with depriciated value.

Sales for Pive Years

Year	Sales
1980-81	11, 53, 76, 919-61
1981-82	13,60,34,235-67
1982-83	14,05,74,717-59
1983-841983-84	14, 19, 36, 395-04
1984-85	19,04,39,964-88

For Not Fixed Assets see chart of Not Fixed Assets.

Ratio of Fixed Assets Turnover for 1980-81

- Sales Net Fixed Assets
- = 11.53.76.919.61 3,60,80,144.31
- = 3.19:1

Ratio of Fixed Assets Turnover for 1981-82

- Seles Net Fixed Assets
- = 13.60.24.235.67 4,65,84,772.43
- = 2.92:1

Ratio of Mixed Assets Turnover for 1982-83

- Sales "Net Fixed Assets
- = 14.05.74.717.59 5,49,25,749.75
- = 2.56:1

Ratio of Fixed Assets Turnover for 1983-84

- = Sales Net Fixed Assets
- = 14,19,36,395,04 5,66,45,091.63
- = 2.51:1

Ratio of Fixed Assets Turnover for 1984-85

- Net Fixed Assets
- = 19.04.39.964.88 5,10,76,754.97
- = 3.73:1

4.4 MALYSIS OF CAPITAL STRUCTURE OR LEVERAGE 1

- 1) Canital Gearing Ratio :
- Equity Capital + Surplus and Reserves
 Preference Share and Loan Capital
- Shareholders Fund Loan Capital

Preference shares are not issued by the company. Hence loan capital includes only secured loan and unsecured loan and loan for working capital.

Secured loan is taken from Industrial Finance Corporation of India for fourth expansion plan, Industrial Development Bank of India for fourth expansion plan and for modernisation scheme, the Industrial Credit and Investment Corporation of India Ltd., for modernisation scheme, The Maharashtra State Co-operative Bank Ltd., Bombay middle term loan for replacement and removation scheme and for generating sets. Loan taken from Life Insurance Corporation of India.

Unsecured loan consists of taken from The State Industrial and Investment Corporation of Maharashtra Ltd.

Total loan capital for five years :

Loan Capital for 1980-81

Secured Loan	ļ
--------------	---

Industrial Finance Corporation of India	34, 50,000.00		
Industrial Development Bank of India:			
i) Fourth expansion plan	29,00,000.00		
ii) Modernisation scheme	25, 50,000.00		
The Industrial Credit and Investment Corporation of India Ltd. :			
i) Fourth expansion plan	7,40,000.00		
11) Modernisation scheme	26, 25,000.00		
Life Insurance Corporation of India	8,00,000.00		
Unsecured Loss :			
The State Industrial and Investment Corporation of Maharashtra Ltd.	33,77,268.00		
Loan for Norking Capital :			
The Maharashtra State Co-operative Bank Ltd., Bombay. On hypothecation of yarn and cotton stock	1,59,56,319.55		
Total Loan Capital	3, 23, 98, 887.55		

Capital Gearing Ratio for 1980-81

- Equity Share Capital + Reserves and Surplus
 Loan Capital
- = 8,50,63,652,68 3,23,98,887.55
- = 2,65:1

Loan Capital for 1981-82

Industrial Pinance Corporation of India	
Fourth Expansion Flan	21, 50,000,00
Industrial Development Bank of India	
Fourth expansion plan	21,00,000.00
Modernisation scheme	22, 50,000,00
The Industrial Credit and Investment Corporation of India Ltd.	,
Fourth expansion plan	80,000.00
Modernisation scheme	23, 25, 000,00
Life Insurance Componetion of India	4
Fourth expansion plan	4,00,000.00
The Maharashtra State Co-operative Bank Ltd., Bombay	
Middle term loan for replacement and renovation scheme	1,66,75,000.00
Unsecured Loan :	en e
The State Industrial and Investment Corporation of Maharashtra Ltd.	40, 51, 268.00
Loan for working capital	•
The Maharashtra State Co-sperative Bank Ltd., Bombay - Hypothecation - on cotton and yarn stock	2, 50, 62, 578, 22
Nortgage	30,00,000.00
Clean cash credit	5,00,000.00
Total Loan Capital	5, 85, 93, 846, 22

Capital Gearing Ratio for 1981-82

Equity Capital + Reserves and Surplus Loan Capital

- 9.38.43.921.36 5.85.93.846.22
- = 1.60:1

Loan Capital for 1982-81

Secured Loss :

Industrial Finance Corporation of India lo,00,000.00

Fourth expansion Plan

Industrial Development Bank of India

Fourth expansion plan 12,80,000.00

Modernisation scheme 19,50,000.00

The Industrial Credit and Investment Corporation of India Ltd.

Modernisation scheme 19,75,000.00

Life Insurance Corporation of India

Bourth expansion plan

The Maharashtra State Co-operative Bank Ltd., Bombay

Middle term loan for replacement 2,44,00,000.00 and Resovation scheme

Unsecured Loan :

The State Industrial and Investment 43,98,268.00 Corporation of Maharashtra Ltd.

Loan for Working Capital :

The Maharashtra State Co-operative Bank Ltd., Bombay

Hypothecation on yarn and cotton

2,71,31,720.73

Mortgage

30,00,000.00

Total Loan Capital

6,51,34,988.73

Capital Gearing Ratio for 1982-83

Ecuity Share Capital + Reserves and Surplus
Loan Capital

- 10, 49, 26, 211, 49 6, 51, 34, 988.73

= 1.61:1

Moan Camital for 1983-84

Secured Loan :

Industrial Development Bank of India

Fourth expansion plan 2,40,000.000

Modernisation scheme 16,50,000.00

The Industrial Credit and Investment Corporation of India Ltd. for

Modernisagion 16,50,000.00

The Maharashtra State Co-operative Bank Ltd., Bombay

Middle term loan replacement and Renovation scheme

3, 22, 30,000.00

Generating sets 16,00,000.00

Unsecured Loan :

The State Industrial and Investment Corporation of Maharashtra Ltd.

Loan for working capital	53,81,641,00
Hypothecation on cotton and yezh	3, 26, 18, 075, 69
Mortgage	30,00,000.00
Clearn cash gradit	5,00,000.00

TotalLoan Capital

7,88,69,716.69

Capital gearing Ratio for 1983-84

Equity Capital + Reserves and Surplus
Loan Capital

<u>11.84.62.498.29</u> 7,88,69,716.69

= 1.50:1

Loan Capital for 1984-85

Secured Loan :

Industiral Development Bank of India

Modernisation scheme 13,50,000,00

Industrial Credit and Investment Corporation of India Ltd.

Modernisation scheme 13,50,000.00

The Maharashtra State Co-operative Bank Ltd., Bombay Middle term loan

Replacement and Renovation scheme 1,95,30,000.00
Generating sets 12,00.000.00

Unsecured Loan :

The State Industrial and Investment Corporation of Maharashtra Ltd.

59, 55, 460,00

Loss for Morking Capital :

The Maharashtra State Co-operative Ltd., Bombay

Hypothecation on cotton stock	2,05,24,849.74
Yarn stock	68,30,000.00
Mortgage	35,00,000.00
Preeshipment cash credit	23, 27,000.00
Clean cash credit	5,00,000.00
Theal Loan Cantes	3 30 67 300 74

Capital Gearing Patio for 1984-85

Equity Capital + Reserves and Surplus Loan Capital

= 12.54.19.558.16 = 3,30,67,309.74

= 3.79:1

Nor theseholders fund see chart of Shereholder's Fund.

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4.2 TOTAL INVESTMENT TO LONG

Shareholders fund + Long-term Liability Long term Liabilities

Shareholders fund consists of share capital and Reserves and surplus. Reserves and surplus includes Reserve fund, Depreciation Fund, Development Rebate Reserve, Investment allowance reserve fund, capital redemption reserve fund, Dividend equalisation fund, common good fund, Reserve for bad and doubtful debt fund, building fund, profit and loss account credit balance, deduction of profit and loss account, Dr. balance.

Long term liability includes non-refundable deposits from members, secured loan taken from Industrial development Bank of India for fourth expansion plan and for modernisation scheme, The Industrial Credit and Investment Corporation of India Ltd. for modernisation scheme, The Maharashtra State Co-operative Bank Ltd., Bombay, middle term loan for replacement and Renovation Scheme and for generating sets. Unsecured loan from The State Industrial and Investment Corporation of Maharashtra Ltd., fixed deposits.

Calculation of Long-term Liability for 1980-81

Non refundable deposits from members

95, 14, 319.49

Secured Loan

89,10,000,00

1,84,24,319.49

IF	CI .	34, 50,000.00	
ID	BI		
1)	4th expansion scheme	29,00,000.00	
11)	Modernisation	25, 50,000.00	
		89,10,000,00	
IC	ICI		41,65,000.00
1)	4th expansion plan	7,40,000.00	
11)	Modernisation	26,25,000.00	
LI	C	8,00,000.00	
		41,65,000.00	
			1,84,24,319.49
	secured Loan fro		
	dustrial and In- rporation of Mal		33,77,268.00
			2,18,01,587.49
P1	med Deposit		

2,18,01,587.49

Shareholders Fund + Long-term Liability
Long term Liability

8.59.63.652.68 + 2.18.01.587.49 2,18,01,587.49

Total Long-term Liability

- = \frac{10.77.65.240.17}{2,18,01,587.49}
- = 4.94:1

Total Long-term Liability 1981-82

Non-refundable deposits from members	95, 14, 319.49
Secured Loan :	
a) IPCI - 4th expansion plan	21,50,000.00
p) idei	
1) 4th expansion plan	21,00,000.00
ii) Modernisation Scheme	22,50,000.00
e) ICICI	
i) 4th expansion plan	80,000.00
11) Modernisation scheme	23, 25, 000.00
d) LIC - 4th expansion plan	4,00,000.00
e) The Maharashtra State Co-operative Bank Ltd Replacement and Renovation scheme	1,66,75,000.00
Unsecured Loan :	,
The State Industrial and Investment Corporation of Maharashtra Ltd.	40, 51, 268.00
Fixed Deposit	7, 45,000.00
•	3,02,90,587.49

Total Investment to Long-term Liabilities

- Shareholders Fund + Long-term Liabilities
 Long-term Liabilities
- 9.38.43.921.36 + 3.02.90.587.49 3,02,90,587.49
- = 12.41.34.508.49 3,02,90,587.49
- 4.10:1

Total Long-term Liabilities (1982-83)

Non refundable deposit from members

95,14,319.49

Secured Loan :

a) IFCI

4th emension plan

10,00,000-00

b) IDBI

4th expansion plan

12,80,000-00

Modernisation

19,50,000-00

Scheme

c) LIC

2, 44,00,000-00

d) The Maharashtra State Co-operative Bank Ltd., Bombay

Unsecured Loan :

Investment Corporation of India Ltd. 43,98,268-00

Fixed deposits

10,41,000-00

3,60,44,268.00

4, 55, 58, 587.49

Total Investment to Long-term Liabilities

- Shareholder's Fund + Long-term Liabilities
 Long-term Liabilities
- 10.49.26.211.49 + 4.55.58.587.49 \ 4,55,58,587.49
- 15.04.84.798.98 4,55,58,587.49
- = 3.3011

Total Long-term Liabilities 1983-84

No	n refundable deposi	ts from members	94, 14, 319, 49		
80	Secured Loan :				
1)	Industrial Minance of India	Corporation	•		
11)	Industrial Develops India	ment Bank of			
	4th modernisation scheme	2,40,000.00			
	Modernisation scheme	16,50,000.00			
111)	Redestrial credit Investment Corporation of India, Ltd. Modernisation	16,50,000.00			
1v)	The State Co-op. Bank Ltd., Bombay Middle term loan a) replacement and Renovation scheme	3, 22, 30,000			
	b) Generating sets	16,00,000.00	•		
Un	secured Loan :		•		
an Co	e State Industrial d Investment rporation of harashtra Ltd.	53,81,641.00			
Mi:	xed deposits	23,92,000.00			
			4,51,53,641.00		

Total long-term

5, 46, 67, 960.49

Shareholders Fund + Long term Liabilities Long term Liabilities

- 11.84.62.498.29 + 5.46.67.960.40 5,46,67,960.49
- = 17.31.30.458.78 5,46,67,960.49
- 3,17:1

Total Long-term Liabilities 1984-85

Non refundable deposits from members	1,12,66,440.00
Secured Loss :	
1) Industrial Development Bank of India	
Fourth expansion plan	13,50,000.00
Modernisation scheme	
ii) The Industrial Credit and Instru- ment Corporation of India Ltd.	
Modernisation scheme	13,50,000.00
111) The Maharashtra State Co-operative Bank Ltd., Bombay - Middle term loan	
a) Replacement and Renovation	1,95,50,000,00
b) Generating Sets	12,00,000.00
Unsecured Loan:	
The State Industrial and Investment Corporation of Maharashtra Ltd.	59, 55, 460.00
Fixed Deposits	26,25,000,00
Total Long-term	4,32,76,900,00

Total Investment to long-term Liabilities

- Shareholder's Fund + Long-term Liabilities
 Long-term Liability
- 12.54.19.558.16 + 4.32.76.900.00 4,32,76,900.00
- = 16.86.96.458.16 4,32,76,900.00
- **3.89:1**

For shareholders fund see chart of Shareholder's Fund.

4.3 RATIO OF CURRENT LIABILITIES TO PROPRIETORS FUND :

Shareholders Aund

Current liabilities includes refundable deposits from members. The Maharashtra State Co-operative Bank Ltd., Bombay Hypothecated cotton and yarn stock, mortgage, clean cash credit, freeshipment cash credit, Deposits from contractors, yarn and others, current liability includes s. crs., expenses, education fund subscription, others sales tax, Interest, provision for income Dividend Gratuity provision.

Shareholders fund includes shares capital and reserves and surplus. Reserves and surplus consists of Reserve fund,

Depreciation fund, Development Rebate Reserve, Investment Allowance Reserve Fund, Capital Redemption Reserve Fund, Dividend Equalisation fund, common good fund, reserve for bad and doubtful debt fund, building fund, profit and loss account.

Ratio of current liabilities to proprietors fund for 1980-81

For ourgent liabilities and shareholders fund see whert.

Current Liability
Shareholders Fund

^{- 4.32.50.221.68} 8.59,63,652.68

^{= 0.51}

Ratio of Current Liabilities to Proprietors Fund 1981-82

- Current Liability Proprietors Fund
- = 5.45.57.868.98 9,38,43,121.36
- **= 0.59.**

Ratio of Current Liabilities to Proprietors Fund 1982-83

- = Current Liability Proprietors Fund
- 6.12.29.650.36 10,49,26,211.49
- = 0.58.

Ratio of Current Liabilities to Proprietors Fund 1983-84

- Current Liability Proprietors Fund
- = 6.25.43.390.59 11,84,62,498.29
- **a** 0.53

Ratio of Current Liabilities to Proprietors Fund 1984-85

- Proprietors Fund
- = 6.47.48.330.05 12,54,19,558.16
- = 0.52.

4.5 PROFITABILITY RATIOS :

- a) General Profitability
- 1) Operating Ratio :

Operating ratio is the relationship of operating cost to net sales operating cost = cost of goods sold + operating expenses.

Operating expenses consists of (i) Manufacturing expenses,

(ii) Selling and distribution expenses, (iii) Administrative expenses, (iv) factory overheads manufacturing expenses includes workers wages, supervision staff salary, Gratuity, Providend Fund contribution (supervision and workers), electricity expenditure, coal and fuel expenditure, stores expenditure, packing material, yearn bleaching and mercering expenses, machinery repairs and maintenance, cotton see.

Yarn selling and distribution expenses includes yarn selling and distribution expenses, Advertisement - yarn travelling and coolie expenses brokerage on yarn selling and commission yarn cess, yarn godown rent.

Administrative expenditure - office staff payment, promident fund contribution of office staff, travelling expenses, travelling expenses of board of directors, postage telegram and telephone, Bank commission, printing and stationery, Donations, guest house expenses, general charges, Rent, Rates and taxes, gardening, honouriarum of board of disectors, auditors.

Factory overheads includes insurance, water supply, building repairy and maintenance, vehicle repairing and maintainence sanitation, lighting, legal fee, employees state insurance, workers welfare expenses.

Cost of goods sold for five years
Sales - G.P. = Cost of goods sold

Year	Sales	G.P.	Cost of goods sold
1980-81	11,53,76,919.61 -	1,80,68,839.58	= 9,73,08,080.61
1981-82	13,60,34,235.67 -	2,00,02,120.69	= 11,60,32,114.78
1982-83	14,05,74,717.59 -	2,74,95,957.90	= 11,58,78,759.69
1983-84	14,19,36,395.04 -	2,99,40,947.89	= 11,19,95,447.15
1984-85	19,04,39,964.88 -	2, 45, 87, 455.22	= 16, 58, 52, 509.66

Coerating Emenses 1980-81

	Particulars	Anount
1)	Workers Wages	1,57,49,334.99
2)	Supervision staff payment	8, 25, 360.63
3)	Gratui ty	2, 24, 429, 82
4)	Provident Fund Contribution	9,67,228.85
5)	Electricity	66,73,224.40
6)	Coal	1,05,848.41
7)	Stores	52,40,043.54
8)	Machinery Repairy and maintenance	13, 55, 828.01
9)	Yazm bleaching	97,468.21

Particulars	Amount
10) Cotton see	16,829.34
11) Yearn selling and distribution	16,478.00
12) Advertisement	1,02,323,10
13) Yazn transport and coolie	54,446.10
14) Brokerage on years selling and commission	2,61,031.11
15) Yarn ses	42, 509,60
16) Yarm godown remt	20,600.00
17) Office Staff Payment	17, 16, 280.93
18) Provident Fund contribution	86,885,90
19) Travelling expenses	99,809.32
20) Travelling expenses (Board of Directors)	22, 885, 56
21) Postage, Telegram, Telephone	1,68,222,96
22) Bank Commission	37, 191.40
23) Printing and Stationery	1,34,130,32
24) Denation	10,000.00
25) Quest House	43, 270, 57
25) General charges	1,24,026.79
27) Rent Rates taxes	79,177,73
28) Gardening	99,880.36
29) Sales Tax	89,947.00
30) Honourizium Board of Directors	1,880,00
31) Audit Fee	30,000.00
32) Insurance	2,98,451,55
33) Duilding repairy and maintenance	2,96,184,65
34) Water supply	1, 20, 754, 40

4,

.

Particulars	Amount
35% Vehicles and maintenance	2,16,198.36
36) Sanitation	40, 384, 22
37) Lighting	25,076.66
38) Legal fee	92,917.00
39) Employees State Insurance	5, 59, 382.09
40) Workers Welfare expenses	6,65,849.32

Total operating expenses (1980-81) 3,68,11,621.20

Operating Ratio

- _ Cost of goods sold + Operating expenses x 100
- = 9.73.08.080.61 + 3.68.11.621.20 × 100
- $=\frac{13.41.19.701.81}{11,53,76,919.61} \times 100$
- = 116.30×

Operating Expenses 1981-82

Particulars		Anount	
1)	Workers wages	1,59,31,431.30	
2)	Supervision Staff Payment	7,06,570.87	
3)	Gratui ty	4, 45, 201.27	
4)	Provident Fund Contribution	11,65,078.50	
5)	Electricity	93, 21, 175.04	
6)	Coal and Fuel	2, 52, 070.33	

Particulars Amount

7)	Stores	32, 26, 877.56
8)	Machinery Repairy and maintenance	20, 43, 650.83
9)	Yarn bleaching	2, 33, 362, 33
10)	Cotton Ses	17,108.37
11)	Yarn selling and distribution	16,217.50
12)	Advertisement	96,097.05
13)	Yarn transport and coalie	38, 330.00
14)	Brokerage on yarn selling and commission	4,16,104.67
15)	Yarn ses	1,86,587.85
16)	Yazn godown rent	27, 266,67
17)	Office Staff payment	16,80,525.57
18)	Provident Fund Contribution	1,04,129.00
19)	Travelling expenses	1,22,087.57
20)	Travelling expenses (Board of Directors)	47,060,00
21)	Postage, telegram, Telephone	2,10,370.52
22)	Bank Commission	33,705,78
23)	Printing and Stationery	1, 43, 251, 93
24)	Donation	
25)	Guest House	59,648.72
26)	General Charges	1,30,808.98
27)	Rent Rates Taxes	70,781.03
28)	Gardening	1,57,701.32
29)	Sales tax	•
30)	Honorarium (Board of Directors)	1,660.00

	Particulars	Ancunt
31)	Audit Fee	30,000.00
32)	Insurance	3,78,632,94
33)	Packing Material	23,87,859.13
34)	Export Promotion expenses	86,041,80
85)	Water supply	1, 32,011,11
36)	Building repairy and maintenance	1, 52, 06 3, 63
37)	Vehicle repairy and maintenance	3, 21, 475.89
38)	Sani tation	36,868.86
39)	Lighting	51,901.47
40)	Legal fee	54, 870,00
41)	Employees State Insurance	7,12,287.95
42)	Workers Welfare expenses	4,05,410.19
	Total operating expenses (1981-82)	4, 16, 34, 271.47

Operating Ratio

- Cost of goods sold + Operating expenses x 100
- = 11.60.32.114.78 + 4.16.34.271.47 x 100
- **= 115.88**%

Operating Emenses 1982-83

	Para Cutara	A STORY
1)	Norkers wages	1,84,19,461.55
2)	Supervision staff payment	10, 33, 503.41

Particulars

Anount

3)	Gartui ty	5, 30,663,61
4)	Provident Fund Contribution	13, 53, 068, 40
5)	Electricity	1,13,37,322.78
6)	Coal	3,10,173.92
7)	Stores	39, 20, 848, 22
8)	Machinery Repairy and Maintenance	22,06,052,06
9)	Yarn Bleaching and Mercerising	2, 39, 813,67
10)	Cotton ses	17,792.04
11)	Yarn selling and distribution	17,063,15
12)	Advertisement	84, 594, 50
13)	Yam transport and coolie	1,278,30
14)	Brokerage on yarn selling and commission	6,67,436,23
15)	Yarn ses	62, 509.64
16)	Yarn godown rent	30,000.00
17)	Office Staff Payment	20,62,187.46
18)	Provident Fund Contribution	1,49,635,55
19)	Travelling expenses	1,02,921.30
20)	Travelling expenses (Board of Directors)	23,132.75
21)	Postage, Telegram, Telephone	2 , 39, 708.26
22)	Bank Commission	35,132.92
23)	Printing and Stationery	1,55,721.28
24)	Donation	-
25)	Guest House	1,05,300.95
26)	General Charges	1,78,214.34
27)	Rent Rates taxes	79,058.62

	Particulars	Amount
28)	Gardening	32,908.95
29)	Sales tax	•
30)	Honorarium (Board of Directors)	•
37)	Audit Fee	30,000.00
32)	Insurance	4, 27, 709.82
33)	Packing material	24, 34, 789.98
34)	Board of Directors meeting fee	4,150.00
35)	Chief Minister Relief Fund	2,00,000.00
36)	Water Supply	96,000.37
37)	Building repairy and maintenance	1,94,889.21
38)	Vehicle repairy and maintenance	3,74,566.61
39)	Sami tation	26,795 .6 6
40)	Lighting	66,395,19
41)	Legal Fee	45,694,00
42)	Employees State Insurance	7,93,164,50
43)	Workers Welfare expenses	5,02,407.33
	Total operating expenses Operating Ratio	4,82,92,066.42
	Cost of goods sold + Operating expe	100 x 100

 $= \frac{11.58.78.759.69 + 4.82.92.066.52}{14,05,74,717.59} \times 100$

 $=\frac{16.41.70.826.21}{14.05,74.717.59} \times 100$

= 116.79%.

Courating Doesses 1983-84

Particulars	Amount
1) Workers Wages	1,99,05,850.94
2) Supervision Staff Payment	10,69,316.23
3) Gratuity	5,67,723.84
4) Progident Fund Contribution	15,40,857.35
5) Electricity	1, 34, 79, 980.58
6) Coal and Fuel	3, 27, 115.20
7) Stores	19,83,464.27
8) Machinery Repairy and Maintenance	13,86,492,62
9) Yarn Bleaching	1,77,396.74
lo) Cotton ses	19,610.88
11) Yarn sealing and distribution	26,941.80
12) Advertisement	68, 591,00
13) Yarn Transport and coolie	217,00
14) Brokerage on yarn selling and commission	4,00,545.39
15) Yarn ses	68,706.41
16) Yarn godown rent	60,000.00
17) Office Staff Payment	24,04,900.98
18) Provident Fund Contribution	1,68,474.25
19) Travelling expenses	98,812.01
20) Travelling expenses (Board of Directors)	22,185.10
21) Postage, Telegram, Telephone	2, 32, 986 . 21
22) Bank Commission	35,762.74
23) Printing and Stationery	1,85,241.06

	Particulars	Amount
24)	Donation	,
25)	Quest House	1,36,061.63
26)	General charges	2,83,330.11
27)	Rent Rates Taxes	59,668.82
28)	Gardening	34,008.01
29)	Sales Tax	•
30)	Honorarium (Board of Directors)	
31)	Audit Fee	30,000.00
32)	Insurance	5,60,386.06
33)	Packing material	25,92,832.70
34)	Board of Directors meeting fee	4, 200.00
35)	Water supply	1,08,331.63
36)	Building repairy and maintenance	2,14,714.43
37)	Vehicle Diesel and petrol	2, 32, 261.73
38)	Vehicle maintenance and repairy	1,70,645.53
39)	Sani tation	43,800.13
40)	Lighting	56,721.94
41)	Legal fee	35, 125.00
42)	Amployees State Insurance	8,04,909.52
43)	Worker's Welfare expenses	7,17,372.58
	Total operating expenses	5,03,15,532.42

Operating Ratio

- Operating expenses + Cost of goods sold x 100
- = 11.19.95.447.15 + 5.03.15.532.42 x 100
- $=\frac{16.23.10.979.57}{14,19,36,395.04} \times 100$
- 114.37%

Operating Expenses 1984-85

Particulars		Anount
1)	Horkers Wages	2,10,62,147.41
2)	Supervision Staff Payment	11,74,242.05
3)	Gratuity	7,91,792.97
4)	Provident Fund Contribution	15, 84, 436.00
5)	Blectricity	1,60,56,616.03
6)	Coal and Fuel	4,71,283.80
7)	Stores	25, 23, 102.70
8)	Packing material	32, 83, 584, 51
9)	Yarn bleaching and mercerising	1,83,928.08
10)	Machinery Repairs and maintenance	23, 26, 857.18
11)	Cotton Cess	20,747.52
12)	Yarm selling and distribution	49,123,30
13)	Advertisement	83,998.80
14)	Yarm transport	17, 595,75
15)	Brokerage and Commission	3,77,247.77

Particulars	Amount:
16) Yarn godown rent	29,666.67
17) Yazn cess	80, 532, 57
18) Office staff payment	26,69,237.81
19) Provident Fund Contribution	1,83,238.00
20) Travelling expenses	1,12,091,75
21) Travelling Board of Directors	21,744.75
22) Postage, Telephone, Telex and Teleprinter	2,72,490.37
23) Bank Commission	32, 544.16
24) Printing and Stationery	2,86,751.89
25) Guest House	1, 30, 368,47
26) General charges	2,02,085.87
27) Gardening	24,929.64
28) Rent, Rates and Taxes	89, 217.39
29) Board of Directors meeting fee	4, 290.00
30) Audit Fee	50,000.00
31) Chief Minister Relief Fund	25,000.00
32) Additional Tax on Sales Tax	1,04,719.00
33) Insurance	6,28,922.52
34) Water Supply	1, 28, 513.21
35) Building Repairing and maintenance	1,75,372.48
36) Vehicle Petrol and Diesel	2, 54, 230.86
37) Vehicle Repairing expenses	1,62,925.50
38) Samitation	45,842.04

Particulars 39) Lighting 1,04,128.16 40) Legal Fee 49,725.00 41) Employees State Insurance 8,64,505.18 42) Workers Welfare Expenses 7,16,\$25.55

Operating Ratio

- __ Gost of goods sold a Operating expenses x loo
- = 16.58.52.509.66 + 5.74.56.002.37 × 100
- $=\frac{22.13.08.512.03}{19.04.39.944.88} \times 100$
- = 117.27%

Expenses Ratio : Posmula for calculating expenses ratio
is = particular expenses x loo particular expenses includes :
Net Sales

- 1) Manufacturing expenses
- 2) Selling and distribution expenses
- 3) Factory everheads
- 4) Administrative expenses.

1) Manufacturing expenses ratio :

* Manufacturing expenses x 100

Maghinery repairy and maintenance, years bleaching and necessary, cotton cass

Manufacturing expenses are made up of workers wages, supervisory staff, payment, gratuity, provident fund contribution, supervisory staff and workers, electricity, duel and coal expenses, stores expenses, packing material.

Manufacturing emenses - 1980-81

Horkers wages	1,57,49,334.99
Supervisory Staff Payment	8, 25, 3 60 .63
Gratuity	2, 24, 429.82
Provident Fund contribution	9,67,228.85
Riectricity	66,73,224.40
Fuel and Coal expenses	1,05,848.41
Stores expenses	52, 40, 043. 54
Machinery repairy and maintenance	13, 55, 828.01
Yarn bleaching and mercerising	97, 468, 21
Cotton Cess	16,829.34

Total Manufacturing expenses 3,12,55,596.20

Manufacturing expenses ratio

- * Manufacturing expenses x 100
- $=\frac{3.12.55.596.20}{11,53,76,919.61}$ × 100
- **= 27.12%**

Manufacturing expenses 1981-82

Morkers Nages	1, 59, 31, 431.30
Supervision Staff payment	7,06,570.87
Gratui ty	4, 45, 201.21
Provident Fund Contribution	11,65,078.50
Electricity	93, 21, 175.04
Coal and Fuel expenses	2, 52, 070 . 33
Stores expenses	32, 26, 877, 56
Packing material	23,87,849,13
Machinery repairs and maintenance	20, 43, 650, 83
Cotton Cess	17,108.37
Yarn bleaching and Mercering	2, 33, 362, 33

Total Manufacturing expenses

3, 57, 30, 375.47

Manufacturing expenses ratio

- * Manufacturing expenses x 100
- $=\frac{3.57.30.375.47}{13,60,34,235.47} \times 100$
- = 26.27×

Manufacturing emenses 1982-83

Horkers Hages	1,84,19,461.55
Supervision Staff Payment	10, 33, 503.41
Gratuity	5, 30, 663.61
Provident Fund contribution	13, 53, 068.40
Electricity	1,13,37,322.78
Coal and Fuel	3, 10, 173.92
Stores expenses	39, 20, 848, 22
Packing material	24, 34, 789.98
Yarn bleaching and mercerising expenses	23, 39, 813.67
Machinery repairs and mainte- nance	22,06,052.06
Cotton Cess	17,792.04
Total manufacturing expenses	4,18,03,489.64

Manufacturing Expenses Ratio

- m Manufacturing expenses x 100
- $=\frac{4.18.09.489.64}{14,05,74,717.59} \times 100$
- **= 29.72%**

Manufacturing excesses 1983-84

Horkers Wages	1,99,05,850.94
Supervision staff payment	10,69,316.23
Gratulty	5,67,723.84
Provident Fund Contribution	15, 40, 857.35
Electricity	1,34,79,980.58
Coal and Fueld expenses	3, 27, 115, 20
Stores expenses	19,83,464.27
Packing material	25,92,832,70
Yazm bleaching and mercising	1,77,386.74
Machinery Repairs and maintenance	13,86,492.62
Cotton Cess	19,610.88
	4,30,50,631.35

Manufacturing Expenses Ratio

- * Manufacturing expenses x 100
- $=\frac{4.30.50.631.35}{14,19,36,395.04} \times 100$
- **= 30.37%.**

Manufacturing emenses 1984-85

Workers Wages	2,10,62,147.41
Supervision staff payment	11,74,242,05
Gratuity	7,91,792.97
Provident Fund Contribution	15, 84, 436.00
Electricity	1,60,56,616.03
Coal and fuel expenses	4,71,283,80
Stores expenses	25, 23, 102.70
Packing material	32, 83, 254.51
Yarm bleaching and mercirising	1,83,928.08
Machinery repairs and maintenance	23, 26, 857, 18
Cotton cess	20,747.52
	4,94,78,408.25

Manufacturing Expenses Ratio

- ... Hanufacturing expenses x 100
- $=\frac{4.94.78.308.25}{19.04.39.964.88} \times 100$
- **= 25.99%**
- 2) Selling and distribution expenses: This ratio is calculated by the following formula:

Selling and distribution expenses x 100

Selling and distribution expenses consists of yarn selling and distribution expenses, Advertisement, Export promotion expenses, yarn transport and coolie expenses, brokerage on yarn selling and commission, yarn godown rent, yarn cess.

Total selling and distribution expenses 1980-81

Yarn selling and distribution expenses	16,478.00
Advertisement	1,02,323,10
Yerns transport and coolie	54,446.10
Brokerage on yarn selling and commission	2,61,031.11
Yarn cess	42,589.60
Yarm godown rent	20,600,00
Total selling and	4,97,467.91

Selling and distribution expenses ratio

= Selling and distribution expenses x loo

distribution expenses

= 4.97.467.91 x 100 = 11,53,76,919.61

- .43×

Selling and distribution excenses ratio 1981-82

Yarn selling and distribution expense	16,217.60
Export promotion expenses	86,039.80
Advertisement	96,097.05

Yarn transport and coolie	38, 330.00
Brokerage on yarn selling and Commission	4,16,104.67
Yarn cess	1,86,587.85
Yarn godown rent	27, 266.67
	8,66,643.54

Selling and distribution expenses x 100

m .64%

Selling and distribution expenses ratio 1982-83

Yarn selling and distribution expenses	17,063.15
Yarn transport	1,278.30
Advertisement	84, 594. 50
Brokerage on yarn selling and Chmmission	3,67,436.23
Yarn godown rent	30,000.00
Yarn cess	62,509.64
	5,62,881.82

Selling and distribution expenses x 100

- = 5.62.881.82 14,05,74,717.59 100
- = .40×

Salling and distribution expenses ratio 1983-84

Yarn selling and distribution expenses	26,941.80
Advertisement	68,591.00
Yarn transport	217,00
Brokerage on yarn selling and commission	4,00,545,39
Yarn godown rent	60,000.00
Yarn cess	68,706.41
	6,25,001.60

Selling and distribution expenses x 100

 $=\frac{6.25.001.60}{14,19,36,395.04} \times 100$

= 0.44%

Selling and distribution expenses ratio 1984-85

Yarm selling and distribution expenses	49,123,30
Advertisement	83,998.80
Yarm transport	17,595.75
Brokerage on yarn selling and commission	3,77,247.77
Yarm godown rent	29,666.67
Yarn cess	80, 532, 57
	6,38,164.86

Selling and distribution expenses x 100

 $=\frac{6.38,164.86}{19,04,39,964.88} \times 100$

= 0.34%

3) Factory Overheads Ratio :

This ration calculated from the following formula :

Factory overheads x 100

Factory overheads expenses consists of Insurance, Water supply, Building repairy and maintenance, vehicles repairy and maintenance, sanitation, lighting, legal fee, employees State Insurance workers welfare expenses, vehicle petrol and diesal expenses.

Factory Overheads for 1980-81

Insurance	2,98,451.55
Water Supply	1,20,754.40
Building repairy and maintenance	2,96,184.65
Vehicles repairy and maintenance	2,16,198.36
Sanitation	40, 384.22
Lighting	25, 076 .66
Legal Fee	92,917.00
Employees State Insurance	5, 59, 382.09
Morkers Welfare Expense	6,65,849.32
Total Factory Overheads	23, 15, 198.25

Factory Overheads expenses x 100

 $^{= \}frac{23.15.198.25}{11,53,76,919.61} \times 100$

^{= 2%} - 2.01%

Factory Overheads for 1981-82

Insurance	3,78,632,94
Water Supply	1,32,011.11
Building repairy and maintenance	1,52,063,63
Vehicles repairy and maintenance	3, 21, 475.89
Sani tation	36,868.86
Lighting	51,901.47
Legal fee	54,870.00
Employees State Insurance	7,12,287.95
Workers Welfare expenses	4,05,410,19
	22, 45, 522.04

Factory Overheads x 100

= 22.45.522.04 13,60,34,235.47 × 100

= 1.65%

Pactory Overheads for 1982-83

Insurance	4, 27, 709.82
Water Supply	96,000.37
Building repairy and maintenance	1,94,889.20
Vehicle repairy and maintenance	3,74,566.61
Sani tation	26,795.66
Lighting	66,395,19
Legal Fee	45,694,00
Employees State Insurance	7,93,164.50
Norkers Welfare expenses	5,02,407.33
Total Factory Overheads	25, 27, 622, 68

Factory Overheads x 100

 $=\frac{25.27.622.68}{14,05,74,717.59}\times 100$

= 1.80%

Factory Overheads for 1983-84

Insurance	5,60,386.06
Water Supply	1,08,331.63
Building repairy and maintenance	2,14,714.43
Vehicle petro and diesel expenses	2, 32, 261.73
Vehicle repairy expenses	1,70,645.53
Sanitation	43,800.13
Id ghting	56,721.94
Legal fee	35,125.00
Ruployees State Insurance	8,04,909.52
Workers Welfare Expenses	7,17,372.58
	29, 44, 268.55

Factory Overhead expenses Ratio

- * Factory Gverheads x 100
- = 29.44.268.55 14,19,36,395.04 × 100
- = 2.07%

Factory Overhead Expenses Ratio for 1984-85

Insurance	6,28,922.52
Water Supply	1, 28, 513.21
Building repairy and maintenance	1,75,372.48
Vehicle Petrol and diesel expenses	2, 54, 230.86
Vehicle repairy expenses	1,62,925.50
Sanitation	45, 842.04
Lighting	1,04,128,16
Legal fee	49,725.00
Employees State Insurance	8,64,505.18
Worker's Welfare expenses	7,16,525.55
Total Overhead expenses	31,30,690.50

Factory Overhead expenses Ratio

- Factory overheads x 100
- $= \frac{31.30.690.50}{19.04,39.964.88} \times 100$
- = 1.64%.

Administrative Expenses Ratio :

Administrative expenses consists of office staff payment, provident fund contribution, travelling expenses, travelling expenses of Board of Directors, postage, telegram and telephone, Bank commission, printing and stationery, Donation, general charges, Rent, Rates, Taxes, gardening, sales tax, honourarium of Board of Directors, audit fee,

Administrative expenses Ratio = Administrative expenses xloo

Administrative Expenses 1980-81

Office Staff Payment	17,16,250.93
Provident Fund contribution	86,885.90
Travelling expenses	99,609.32
Travelling expenses Board of Directors	22, 885. 56
Postage, Telegram, Telephone	1,68,222,96
Bank Commission	37,191,40
Printing and Stationery	1,34,130.32
Donation	10,000.00
Guest House charges	43, 270.57
General Charges	1,24,026.79
Rent, Rates and Taxes	79,177.73
Gardening	99,880.36
Sales Tax	89,947.00
Honourarium to Board of Directors	1,880.00
Audit Fee	30,000.00
Total Administrative	27, 43, 358,84

Administrative Expenses x 100

^{= 27.43.358.84} 11,53,76,919.61 × 100

^{= 2.38%.}

Administrative Expenses 1981-82

Office Staff Payment	16, 80, 525. 57
Provident Fund Contribution	1,04,129.40
Travelling expenses	1, 22, 087 . 57
Board of Directors expenses	47,040.00
Postage, Telephone, Telex, Teleprinter	2, 10, 370. 52
Benk Commission	33,705.78
Printing and Stationery	1, 43, 251,93
Guest House charges	59,648.72
General Charges	1,30,808.98
Rent, Pates and Taxes	70,781,03
Gardening	1,57,701.32
Sales Tax	•
Honousings to Board of Directors	1,660,00
Audit Pee	30,000.00
Total Administrative expenses	27,91,730.42

Administrative expenses x 100

 $=\frac{27.91.720.42}{13,60,34,235,47}\times 100$

2.05%.

Administrative Exmenses 1982-83

Staff Payment Office	20,62,187.46
Provident Fund Contribution (Office staff)	1, 49,635.55
Travelling expenses	1,02,921,30
Board of Directors Travelling expenses	23,132.75
Postage, Telephone, Telem, Teleprinter	2, 39, 708.26
Bank Commission	35, 132.92
Printing and Stationery	1,55,721.28
Guest House Charges	1,05,300.95
General Charges	1,78,214,34
Gardening	32,908.95
Rent, Rates taxes	79,058.62
Audit Fee	30,000.00
Chief Ministers Relief Fund	2,00,000.00
Total Administrative expenses	33,98,072.38

Administrative Expenses Ratio

- Administrative expenses x loo
- $= \frac{33.98.072.38}{14,05,74,717.59} \times 100$
- = 2.42%.

Administrative Expenses 1983-84

Office Staff Payment	24,04,900.98
Provident Fund Contribution	1,68,474.25
Travelling Expenses	98,812.01
Board of Directors	22,185.10
Postage, Telephone, Telex Teleprinter	2, 32, 986 . 21
Bank Commission	35,762.74
Frinting and Stationery	1,85,241.06
Guest House Expenses	1,36,061,63
General Charges	2,83,330,11
Gardening	34,008.01
Rent, Rates, Taxes	59,6 68,82
Board of Directors meeting fee	4,200.00
Audit Fee	30,000.00
· ·	

Total Administrative expenses

36,95,630.92

Administrative expenses Ratio

- Administrative expenses x 100
- $=\frac{35.95.630.92}{14,19,36,395.04} \times 100$
- **2.60%**.

Administrative expenses 1984-85

Office Staff Payment	26,69,237,81
Provident Fund Contribution (Office Staff)	1,83,238.00
Travelling expenses	1,12,091.75
Travelling expenses Board of Directors	21,774.75
Postage, Telephone, Telex Teleprinter	2,72,490.37
Bank Commission	32, 544.16
Printing and Stationery	2,86,751.89
Guest House Charges	1, 30, 368, 47
General Charges	2,02,084.87
Gardening	24,929.64
Rent, Rates Taxes	89,217.39
Meeting Fee Board of Directors	4, 290.00
Audit Fee	50,000.00
Chief Minister Relief Fund	25,000.00
Additional Tax on Sales Tax	1,04,719.00
Total administrative expenses	42,08,739.10

Administrative expenses Ratio

_ Administrative expenses x 100

 $= \frac{42.08.739.10}{19.04,39.964.88} \times 100$

= 2.21%.

Operating Profit Ratio :

- Operating Profit x 100

Operating Profit - Net Profit + Income Tax + Interest

Paid - interest received - Miscalleneous receipts -dividend

received - interest and carrying charges received - other

receipts * profit on sale of fixed asset - refund of sales tax
other receipts share dividend - refund of income tax.

Operating Profit Ratio 1980-81

Operating Profit

Net Profit

5,07,190.37

+ Income Tax

+ Interest

55, 54, 851.19

60,62,041.56

Less -

Interest received

9, 42, 207.39

Other receipts

4, 42, 975, 40

Share dividend

9, 237,60

13,94,420.39

46,67,621.17

Operating Profit Ratio

- Net Sales x 100

 $= \frac{46.67.621.17}{11,53,76,919.61} \times 100$

= 4.04%

Operating Profit Ratio for 1981-82

Operating Profit

Net Loss

-13,66,075.42

+ Interest

84,63,734,82

70,97,659.40

Less -

Interest

6,78,422.82

Other Receipts

7, 15, 212.01

Share Dividend

38, 38, 385, 34

Refund of income

20,078.00

Tax

Refund of Sales

4,81,328.00

Tax

19, 15, 426, 17

51, 82, 233, 23

Operating Profit x 100

 $= \frac{51.82.233.21}{13,60,34,235.47} \times 100$

3.81%.

Operating Profit Ratio for 1982-83

Operating Profit

Net Loss

-11, 28, 240.62

.Interest

96, 21, 094.19

84,92,853.57

Less -

Interest 11,19,903.75

Miscellaneous 15,58,337.48

Dividend 52,730.00

Sales Tax 38,589.50

27,69,450.73

5,72 57,23,392.84

Operating Profit x 100

= 57.23.392.84 × 100

= 4.07%.

Operating Profit Ratio for 1983-84

Operating Profit

Net Loss -62,62,347.27

+Interest 1,19,60,216.79

56,97,869.52

Less -

Interest and 8,87,933.98

Carrying Charges

Other Income 5,71,630.93

Profit on Sale of 27,55,805.99

asset

Di vidend 58, 854, 20

42, 23, 644.42

Operating Profit 14,23,644.42

Operating Profit x 100

 $=\frac{14.23.644.42}{14,19,36,395.04} \times 100$

= 1.00% i.e. 1%

Operating Profit Ratio 1984-85

Operating Profit

Ness Loss -91,03,801.46

+Interest 1,33,43,540.33

+Income Tax 3,28,316.00

45,68,054.87

Less -

Interest 1,07,787.59

Carrying charges 23,03,035.41

Other receipts 12, 39, 541.35

Profit on sale of 13,59,378.47

asset

Sales tax

Dividend 71,895.20

52, 50, 666, 21

Total operating loss - 6,82,611.34

= -6.82.611.34 19.04.39.964.88 × 100

....36%.

G.P. Patio :

Sales and Gross Profit for 1980-81

YOU.	particulars	Net Sales
1980-81	1,80,68,839,58	11, 53, 76, 919.61
1981-82	2,00,02,120.69	13,60, 34, 235.67
1982-83	2, 47, 95, 957.96	14,05,74,717.59
1983-84	2,99,40,947.89	14, 19, 36, 395.04
1984-85	2, 45, 87, 455.22	19,04,39,964.88

G.P. Ratio :

1980-81	= 1.80.68.839.58 x 100	•	15.66×
1981-82	$= \frac{2.00.02.120.69}{13,60,34,235.67} \times 100$	*	14,70%
1982-83	= 2.47.95.957.90 × 100	*	17.64%
1983-84	$= \frac{2.99.40.947.89}{14,19,36,395.04} \times 100$	=	12.09%
1984-85	= 2.45.87.455.22 × 100		12.91%

H.P. Pattie :

= N.P. × 100

Net Profit and Sales for 1980-81 - 1984-85

Zesta Zesta memenen	- 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 8 2 1 0 6 21 - 21 - 21 - 21 - 21 - 21 - 21 - 21 -	Met Profit	Het Loss
1980-81	11, 53, 76, 919.61	5,07,190.37	•
1981-82	13,60, 34, 235,67	•	13,66,075.42
1982-83	14,05,74,717.59	•	11, 28, 240,62
1983-84	14,19,36,395.04		62,62,347.27
1984-85	19,04,39,964.88	••••••••••••••••••••••••••••••••••••••	91,03,901.46
White Street Street Street Street	ت سنة مور دين شن الله عليه الله عليه دين دين	و مدال سنوه دانی میشا دانی داری	
1980-81	= 5.07.190.37 11,53,76,919.6	- × 100 =	.44%
1981-82	= -13,66,075,42 13,60,34,235,	67 × 100 =	-1%
1982-83	-11,28,240,62 14,05,74,717.	59 × 100 =	80%
1983-84	= 14,19, 25, 395,	04 × 100 =	-4.41%
1984-85	= -91.03.801.46 19,04,39,964.	88 × 100 =	-4.78%

OVERALL PROFITABILITY :

Return on Shareholders Investment or Net Worth (R.O.I)

Shareholder's Fund

Net Profit for five years :

1980-81	5, 07, 190, 37
198 1-82	-13,66,075.42
1982-83	-11, 28, 240,62
1983-84	-62,62,347,27
1984-85	-91,03,801.46

Shareholders fund consists of share capital + Reserve

Fund + Depreciation fund + Development Rebate Reserve + Investment Allowance Reserve Fund + Capital redemption reserve fund + dividend equalisation fund + common good fund + Reserve for bad and doubtful fund + Building fund + Profit and Loss A/c Cr.

balance - Profit and Loss A/c Dr. balance.

Return on Shareholders Investment 1980-81

Shareholders Fund = 8,59,63,652,68

N.P. (after tax and interest) = 5,07,190.37

Net profit (after interest and tex) Shareholders Fund

 $= \frac{5.07.190.37}{8,59,63,652.68} = 0.0611$

Beturn on Shereholders Investment 1981-82

Net Loss = -13,66,075.42

Shareholders Fund = 9, 38, 43, 921.36

Met Loss Shareholders Fund

- 13.66.075.42 9,38,43,921.36
- - 0.014:1

Return on Shareholders Investment 1982-83

Net Loss = -11, 28, 240,62

Shareholders Fund = 10, 49, 26, 211, 49

- Net Loss Shareholder's Fund
- 11,28,240,62 10,49,25,211,49
- = -0.011:1

Return on Shareholders Investment 1983-84

Net Loss = -62,62,347.27

Shareholders Fund = 11,84,62,498,29

- " Shareholders Fund
- 42.62.347.27 11,84,62,498.29
- = -0.053:1

Antonia da Abrantoldora Irana turat 1984-61

Not less o - 91,02,001,46 Spanstoldess Fund o 12,54,29,560,36

Market war

** 11:10:10:10.10

-- 0,07341

For Shareholder's fund see chart.

Return on Equity Capital :

Net Profit after tax and Prof. div. Paid up equity capital

Net profit for five years as per balance sheett

1980-81	Profit	5,07,190.37
1981-82	Loss	-13,66,075.42
1982-83	Loss	-11, 28, 240.62
1983-84	Loss	-62,62,347.21
1984-85	Loss	-91,03,801.46

Paid up capital for five years as per balance sheet

1980-81	75,68,000.00
1981-82	75,68,000.00
1982-83	72,68,000.00
1983-84	69,68,000.00
1984-85	64,08,000.00

Return on eluity capital

$$1990-81 = \frac{5.08.190.17}{75,68,000.00}$$

. 0.066

. 0.180

$$1983-84 = \frac{62.62.347.21}{69,68,000.00}$$

-0.898.

-1.421.

Earning per share . No. of equity shares

Not profit for five years as per balance sheet

1980-81	Profit	5,07,190.37
1981-82	Loss	-13,66,075.42
1982-83	Loss	-11, 28, 240.62
1983-84	Loss	-62,62,347.27
1984-85	Loss	-91,03,801.46

Number of equity shares for five years

1980-81	75.68
1981-82	7568
1983-83	7268
1983-84	6968
1984-85	6 408

= -180.50

E.P.S. 1982-83 = 11.28.240.62

- - 155,23

R.P.S. 1983-84 = -62.62.347.27 6968

- - 898.73

E.P.S. 1984-85 = - 91.01.801.46

- 1420.69

Return on assital amployed :

- Profit (before tax and interest) x 100

Net profit before tax and interest

Net profit + Tax + Interest

1980-81	Net	profit	5,07,190.37
			*

Tax

Interest 55, 54, 851.19

Net Profit 60,62,041.56

1981-82 Net Loss -13,66,075.42

Tax

Interest 84,63,734.82

Net Profit 70,97,659.40

1982-83	Net Loss	-11, 28, 240.62
	Tax	***
	Interest	96,21,094.19
	Net Profit	84,92,853.57
1983-84	Net Loss	-62,62,347.27
	Tax	•
	Interest	1,90,60,216.79
	Net Profit	56,97,869.52
1984-85	Net Loss	-91,03,801.46
	Tax	3, 28, 316.00
	Interest	1, 33, 43, 540, 33
	Net Profit	45,68,054.87

The term capital employed consists of -

- a) Mixed Assets
- +b) Investments
- +c) Current Assets
 - Current Miabilities

Fixed assets includes land, building and roads, plant and machinery, dead stock and furniture, bioler and steem pipe line, fire hydrants, weight and measures, works instruments, vehicles, water installation, telephone and telex installation, trolly line, jackwell pipe line, library books.

Investments includes investment made in Mational Savings Bonds, Corporative Society shares 54% debentures of Industrial Finance Corporation of India.

Current assets includes cash, bank, excise account, current stores and spares parts, coal, cotton at godown, cotton in work in process yarm in work in process, yarm at packing section and bonded godown, yarm at selling centre, saleable cotton waste at godown, hard waste, debtors, deposits, purchases of cotton, stores purchases and expenses, building construction, purchases of machinery, employees, purchases of shares, earnest octroi money, excise duty refundable, sales tax refundable, prepaid insurance, prepaid expenses, advance payment of income tax.

Current liabilities includes sundry ces, expenses, education fund subscription, others, sales tax, interest, provision for income tax, Dividend, gratuity, provision, refundable deposits from members, the Maharashtra State

Co-operative Bank Ltd., Bombay - Loan (a) Hypothecated Cotton and yarn stock, (b) Mortgage, (c) Clearn cash credit, (d) Free-shipment cash credit, Deposits from contractors, yarn takers and others.

Capital employed Ratio 1980-81

Fixed Assets

8,68,67,103.51

+Investments

13,05,450.00

8, 81, 72, 553.51

2, 30, 13, 505, 17

+ Current Assets

6,62,63,726.85

- Current Mabilities

4, 32, 50, 221.68

2, 30, 13, 505.17

Capital employed

11, 11, 86, 058, 68

Capital employed Ratio 1980-81

Net profit (before tax and interest) x 100 Capital employed

= 60.62.041.96 11,11,86,058.68 × 100

- 5.45%

Capital employed for 1981-82

Fixed Assets

10,44,01,702.09

+Investments

13, 16, 450.00

10, 57, 18, 152, 09

+Current Assets

8, 31, 38, 281,69

-Gurrent Liabilities 5, 54, 57, 868.98

2,76,80,412,71

2,76,80,412,71

Capital employed

13, 33, 98, 564, 80

Capital employed Ratio 1981-82

Net Profit Capital employed x 100

= 70.97.659.40 × 100

= 5.32

Capital Employed Ratio 1982-83

Pixed Assets

12, 36, 45, 855.16

+Investments

15,07,450.00

12, 51, 53, 305, 16

2, 41, 81, 561, 15

+Current Assets
-Current Liabilities

8, 54, 11, 211, 51 6, 12, 29, 650, 36

2, 41, 81, 561, 15

Capital employed

14,93,34,866.31

Genital employed ratio

- Met Profit x 100 Capital employed x 100

 $=\frac{84.92.853157}{14,93,34,866.31} \times 100$

- 5.68×

Canital Employed Ratio 1983-84

Mided Assets

13,99,20,736.11

+Investments

15,62,700.00

14, 14, 83, 436.11

2,06,15,972.88

+Current Assets

8, 31, 58, 363, 47

-Current

Liabilities

6, 25, 43, 390, 59

2,06,15,972,88

16, 20, 99, 408, 99

Capital employed Ratio

- Met Profit x 100
- $=\frac{56.97.869.52}{16,20,99,408.99} \times 100$
- 3.51×

Capital Employed Batio 1984-85

Mixed Assets

14,81,37,836,78

+Investments

13,63,200.00

14,95,01,036.78

+Current Assets

8, 11, 47,651,64

1,63,99,321.59

-Current Liabilities

6, 47, 48, 330,05

16, 39, 99, 321, 59

Capital amployed

16, 59,00, 358.37

Capital employed Ratio

- Net Profit x 100
- $=\frac{45.68.054.87}{16.59.00.358.37} \times 100$
- = 2.75%

4.6 ACTIVITY RATIOS :

Inventory Turnover Ratio :

This ratio is calculated as follows:

Cost of coods sold Average inventory

Average inventory is derived as average of opening inventory and closing inventory. Opening inventory consists cotton at godown, cotton in work in progress, Yarn-in work in progress, yarn in packing section and bonded godown, yarn at selling centre, saleable cotton waste at godown, hard waste.

Closing inventory consists of cotton at godown, cotton in work in progress, yarn in work in progress, yarn at packing section and bonded godown, yarn at selling centre, hard waste.

Opening Stock 1980-81

Cotton in godown	2, 51, 24, 392.87
Cotton work in process	12,37,006.23
Yarn in work in process	2,13,744.40
Yarn in packing section and bonded godown	36,91,469.92
Yarn at selling centre	26,89,400.99
Saleable cotton waste at godown	3,67,433.01

Total opening inventory 3, 33, 23, 447.42

Closing Stock 1980-81	2,95,71,208.44
Cotton in godown	16,95,259.48
Cotton work in process	8,63,084.65
Yarn in work in progress	60, 27, 009.26
Yarn in packing section and Bonded godown	33, 24, 985. 30
Yarm at selling centre	6,82,463.15
Saleable cotton waste at godown	

Total closing inventory

3,91,64,010.28

(Total opening inventory + Total closing inventory)

- = (3,33,23,447,42 + 3,91,64,010.28) x 12
- = (7,24,87,457.70) x 3
- = 3,62,23,728,80.

Cost of goods sold

- Sales G.P.
- **= 11,53,76,919.61 1,80,68,839.58**
- 9,73,08,080.03

Cost of coods sold Average inventory

- = 3,62,23,728.80
- = 2.68

Closing Inventory 1981-82

Opening Inventory	
Cotton in godown	2,95,71,208,44
Cotton work in process	16,95,259.48
Yarn in work in process	8,63,084.65
Yam in packing section and Bonded godown	60, 27, 009.26
Yern at selling centre	33, 24, 985, 30
Saleable cotton waste at godown	6,82,463.15
Total opening inventory	3,91,64,010.28
Closing Inventory	
Cotton in godown	3,72,52,307.39
Cotton in work in process	16, 52, 220.91
Yarn in work in process	8,32,619.78
Yarn in packing section and Bonded godown	66,97,409,71
Yarn at selling centre	28,67,335.26
Saleable cotton waste at godown	2,71,106.81

Average inventory

- (Opening inventory + Closing inventory)
- 3.91.64.010.28 + 4.95.72.999.86
- 8.87.37.010.14
- **4,43,68,505.07**

Cost of goods sold

- Sales G.P.
- = 13,60,34,235,67 2,00,02,120,69
- = 11,60,32,114.98

Inventory turnover for 1981-82

- Cost of goods sold Average inventory
- = 11.60,32.114.98 x 2.60

Inventory Turnover for the year 1982-83

Opening Inventory	
Cotton in godown	3,72,52,307.39
Cotton work in progress	16,52,530.91
Yazm in work in progress	8, 32, 619.78
Yarn in packing section and Bonded godown	66,97,409.71
Yarn at selling centre	28,67,335.26
Saleable cotton waste at godown	2,71,106.81
Total Opening Inventory	4,95,72,999.86
Closing Inventory	
Cotton in godown	3, 30, 21, 678, 62
Cotton work in process	17,60,193.49
Yern in work in progress	13,76,156.51
Yazm in packing section and	1,07,40,949.26

Yarn at selling centre Saleable cotton waste at godown Hardwaste

46, 44, 296, 31 2, 64, 821, 59 21, 847, 95

Total Closing Inventory

5, 18, 29, 943, 73

Average Inventory

- m (Opening + Closing) &
- = (4.95.72.999.86 + 5.18.29.943.71)
- = (10,14,02,943.59) x 1/2
- = 5,07,14,717.79

Cost of goods sold

- . Sales G.P.
- **= 14,05,74,717.59 2,47,95,957.90**
- = 11,57,78,759.69

Inventory Turnover

- Cost of coods sold
- = 11.57.78.759.69 5,07.01,471.79
- = 2.28

1983-84

Opening Inventory

Cotton in godown

Cotton work in process

Yarn work in process

Yam in packing section and Bonded godown 3, 30, 21, 678, 62

17,60,193,49

13,76,156.51

1,07,40,949.26



Yern at selling centre	2,64,821.59	
Saleable cotton waste at godown	21,847.95	
Hardwas te		
Total opening inventory	5, 18, 29, 943.73	
Closing inventory		
Cotton in godown	3, 33, 18, 429.99	
Cotton work in process	21,75,520.77	
Yarn work in process	31,94,547.84	
Yarn in packing section and Bonded godown	1,90,32,586.64	
Yash at selling centre	1,03,47,760.80	
Saleable cotton waste at godown	4,70,688.07	
Hardwaste	***	
Total closing inventory	6,85,39,534,11	

Average Inventory

= (Opening + Closing) %

 $= (5,18,29,943.73 + 6,85,39,534.11) \times \frac{1}{2}$

= (1,20,69,477.84) x 3

a 6,01,84,739.42

Cost of goods sold

sales - G.P.

± 14,19,36,395.04 **=** 2,99,40,947.89

- 11,19,95,447.15

Inventory Turnover Ratio = 11.19.95.447.15

m 1,86:1

تصفعت

Opening Inventory	
Cotton in godown	3, 33, 10, 429,99
Cotton in process	21,75,530,77
Yagn in progess	32,94,567,84
Year in packing section and Pended sedem	1,90, 32, 586,64
Your at solling ountre	1,03,47,740.80
Beleable esten weste et godons	4,70,648,07
Husdyde to	•
This opening inventory	6, 85, 39, 534,11
Closing Investory	
Cutton in godow	3, 43,92,008,77
Cottos in passess	17,96,881.30
Yern in process	20, 32, 044,41
Term in packing section and Sected potents	1, 22, 84, 996,06
Yess at solling contro	46,92,342,57
Selection veste et godoum	6,20,020.56
Hardranto	47,174,30
Total aloning inventory	5, 50,64,464,37
Average inventory	
a (apening + aloning) a h	

- (6.85.20.524.22 + 5.50.44.447.22)
- " (33-44-04-00)-40)
- 6,22,02,000.74

Inventory Turnover

- Cost of goods sold Average inventory
- = (19.04.39.964.88 2.45.87.455.22) 6,22,02,000.74
- = 16,59,52,509,66 6,22,02,000,74
- **2.66**

Debtors Turnover Ratio/Velocity

Wet Credit Annual Sales
Werage Trade Debtors

Here for calculation net annual credit sales mean total sales are taken.

Average trade debtors means total debtors i.e. debtors from sale of years and others are taken.

Total sales consists of sale of yarn, cotton waste and hardwasts.

Year	Total debtors as per Balance sheet		
1980-81	30,74,131.86		
1981-82	20,95,044.52		
1982-83	10, 37, 682.13		
1983-84	20, 89, 321.41		
1984-85	31,92,935.12		

Total Net Sales as per Trading

Ascount

1980-81	11, 53, 76, 919.61
1981-82	13,60,34,235.47
1982-83	14,05,74,717.59
1983-84	14, 19, 36, 395.04
1984-85	19,04,39,964.88

Rebtors Turnover Ratio for 1980-81

Stal Annual Sales Debtors

- 11,53.76,919.61 30,74,131.86
- **= 37.53:1**

Debtors Turnover Ratio for 1981-82

Total Annual Sales Debtors

- <u>13.60.34.235.47</u> 20,95,044.52
- **= 64.93**1/1

Debtors Turnover Ratio for 1982-83

Total Annual Sales Debtors

- = 14.05.74.717.59 = 10,87,682.13
- **= 135,55:1**

Debtors Turnover Satio for 1983-84

- Debtors
- _ 14.19.36.395.04 20,89,321.41
- **= 67.94:1**

Debtors Turnever Ratio for 1984-85

- Debtors
- <u>19.04.39.964.88</u> 31.12.935.12
- **# 61.19:1**

Average Collection Period :

Trade Debtors x No. of working days

No. of working days are considered as 365 days.

Trade Debtors for five years.

The term debtors includes debtors about sale of yarn and other debtors

Year		Deb	5028		Total
	Sale	of ;	yagm + other =		
1980-81	1,96,980.83	•	28,77,151.03	-	3, 30, 74, 131, 86
1981-82	3,17,698.83	+	17,77,345.69	***	20,95,044.\$2
1982-83	5, 43, 832.43	•	4,93,849.70	•	10, 37, 682, 13
1983-84	12, 26, 857.89	•	8,62,463,52	***	20, 89, 321.41
1984-85	3, 47, 526,16	+	28, 45, 408.96		31,92,935.12

Het Sales for five years

Sales includes sale of yarm, cotton waste, and hardwaste.

Notal net sales as per Trading Account

1980-81	11,53,76,919.61
1981-82	13,60, 34, 235, 47
1982-83	14,05,74,717.59
1983-84	14, 19, 36, 395.04
1984-85	19,04,39,964.88

Debtors Average Collection Radio for 1980-81

Trade debtors x No. of working days

- $= \frac{20.74.131.86}{11,53,76,919.61} \times 365$
- = 9.72 days i.e.10 days.

Debtors Average Collection Period 1981-82

Trade Debeors x No. of working days

- $=\frac{20.95.044.52}{13,60,34,235.47} \times 365$
- = 5.62 days i.e. 6 days.

Debtors Average Collection Period for 1982-83

Trade Debtors x No. of working days

- $=\frac{10.37.682.13}{14,05,74,717.59} \times 365$
- = 2.69 days 1.e. 3 days.

Debtors Average Collection Period for 1983-84

Trade Debtors x No. of working days

- $=\frac{20.89.321.41}{14,19,36,395.04} \times 365$
- = 5.37 days 1.e. 6 days.

Debtors Average Collection Period for 1984-85

Trade Debtors x No. of working days

- $=\frac{31.92.935.12}{19.04,39.964.88} \times 365$
- = 6.11 days i.e. 7 days.

Creditors Turnover Ratio or Creditors Relocity

Trade Creditors

Annual Purchases and creditors

	Annual Purchases	Credi tors
1980-81	7,43,95,578.78	26,76,084.51
1981-82	8,68,25,852.80	8, 82, 178.69
1982-83	8,54,91,904.58	33, 35, 687.15
1983-84	8,54,91,904.58	33, 35, 687.15
1984-85	10, 31, 17, 805.81	63,61,212,24

Graditors Valority for 1980-81

- Annual Purchases Trade Creditors
- = 7.43.95.578.78 26,76,084.61
- = 27.80:1

Greditors Velocity for 1988-82

- " Trade Creditors
- = 8.68.25.852.80 8,82,178.69
- **= 98.42:1**

Creditors Velocity for 1982-83

- Annual Purchases
 Trade Creditors
- 7.56.69.332.10 23,11,637.97
- = 32.73:1

Creditors Velocity for 1983-84

- Annual Purchases
 Trade Creditors
- 8.54.91.904.58 33.35,687.15
- **= 25.63:1**

Creditors Velocity for 1984-85

- Annual Purchases
 Trade Creditors
- = 10.31.17.805.81 63,61,212.24
- = 16,21:1

Graditors Average Payment Pariod :

- * Average Daily Purchases
- . Total Trade Creditors x No. of working days

Total Trade Creditors as per Balance Sheet

Year	Sundry Creditors	
1986-81	26,76,084.51	
19 81-82	8, 82, 178.69	
1982-83	23, 11, 637.97	
1983-84	33, 35, 687.15	
1984-85	63,61,212.24	

Total Purchases as per Manufacturing Account

Year	Cotton Purchases	
1980-81	7, 43, 95, 578.78	
1981-82	8,68,25,852.80	
1982-83	7, 56, 69, 332, 10	
1983-84	8,54,91,904,58	
1984-85	10, 31, 17, 805.81	

Average payment period for 1980-81

- = Total Trade Creditors x 365
- $=\frac{26.76.084.51}{7.43.955578.78} \times 365$
- m 13.13 days i.e. 14 days.

Average Payment Period for 1981-82

- * Total Furchases x 365
- $-\frac{8.82.178.69}{8,68,25,852.80} \times 365$
- 3.71 i.e. 4 days

Average Payment Period for 1982-83

- Total Trade Craditors x No. of working days
- $=\frac{23.11.637.97}{7,56,69,332.10}\times365$
- m 11.15 days i.e. 12 days

Average Payment Period for 1983-84

- Total Trade Creditors x No. of Working days
- = 33,35,687,15 x 365
- = 14.24 days i.e. 15 days

Average Payment Period for 1984-85

- " Total Grade Graditors x No. of working days
- $=\frac{63.61.212.24}{10,31,17,805.81}$ x 365
- = 22.51 days 1.e. 23 days

Morlding Capital Turnover :

This ratio is the relationship of the number of times a unit invested in working capital produces sale.

Morking Capital Turnover = Net Morking Capital

This ratio indicates the efficiency or inefficiency in the use of whole working capital.

Sales consists of sales of yarn, cotton waste and hardwaste.

Net Working Capital - Current Assets - Current Liabilities.

Current assets of the mill are cash, bank, excise account current, stores and spares parts, coal, cotton at godown, cotton in process, yarn in process, yarn at packing section and bonded godown, yarn at selling centre, saleable cotton waste, at godown, hardwaste, debitors, deposits, purchases of cotton, stores purchases and expenses, building construction, purchases of machinery, employees, purchases of shares, earnest octroi money, refundable excise duty, refundable sales tax, prepaid insurance, prepaid expenses, advance payment of income tax etc.

Current liabilities includes refundable deposits from members, loan taken from the Maharashtra State Co-operative Bank Ltd., Bombay (a) Hypothecated cotton and yarn stock, b) Mortgage c) Clean cash credit, freeshipment cash credit.

Deposits from contractors, years and others, sundry, creditors, expenses, education fund, subscription, others, sales tax, interest, provision for income tax, dividend, gratuity, provision.

Sales for five years

1980-81	11,53,76,919,61	
1981-82	13,60,34,235.47	
1982-83	14,05,74,717.59	
1983-84	14,19,36,395.04	
1984-85	19,04,39,964.88	

Net Working Capital = Current Assets - Current Liabilities

Current Assets - Current Liabilities

1980-81 6,69,96,908,34 - 4,32,50,221.68 - 2,35,46,686.66.

1981-82 8,38,74,225.68 - 5,54,57,868.98 - 2,82,16,356.70

1982-83 8,65,61,144.13 - 6,12,29,650.36

1983-84 8, 41, 80, 732.16 - 6, 25, 43, 390.59

- 2,16,37,341.57

= 2,53,38,183.77

1984-85 8, 21, 81, 630.91 - 6, 47, 48, 330.05 = 1,74, 33, 300.86.

Morking Capital Turnover Ratio

Net Soles Net Working Capital

$$\begin{array}{rcl}
1980-81 & = & \frac{11.53.76.919.61}{2,35,46,686.66} \\
& = & 4.90:1 \\
1981-82 & = & \frac{13.60.14.215.47}{2,82,16,356.70} \\
& = & 4.82:1 \\
1982-83 & = & \frac{14.05.74.717.59}{2,53,38,183.77} \\
& = & 5.55:1 \\
1983-84 & = & \frac{14.19.36.395.04}{2,16,37,341.57} \\
& = & 6.86:1 \\
1984-85 & = & \frac{19.04.39.964.88}{1,74,33,300.86} \\
& = & 10.92:1 \\
\end{array}$$

For Not Wosking Capital non Chart of current ancets and current liabilities.